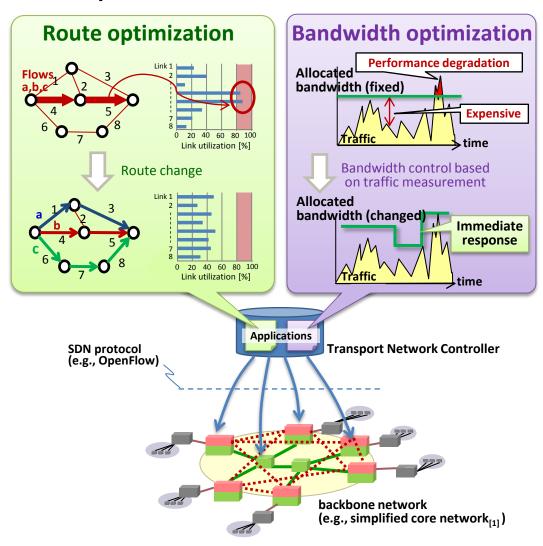
## Traffic optimization framework based on centralized control NTT (9)



A traffic optimization framework, such as route and bandwidth optimization, is enabled by applications on transport network controller which integrates the IP and optical control planes.



## **Benefits**

High degrees of freedom in network control which cannot be realized by the conventional IP are derived from centralized control.

## **Features**

- **Route optimization** 
  - Routes are optimized for purposes such as equalizing the use of facilities.
  - Route changes are executed while avoiding transient congestion and openand closed-loop congestion.
- Empowered by Virtual Network Controller Ver2.0® made by NTT Data Corp.
- **Bandwidth optimization** 
  - Measurement-based control determines need for immediate bandwidth increases while predicting increases in the amount of user traffic.

[1] T. Hamano, M. Namiki, K. Aoyagi, "Simplification of core network by decoupling IP routing functions from transport node", iPOP2013, May 30-31, 2013, Tokyo, Japan